

100
FIG. 1

702050 268T0860

101-103

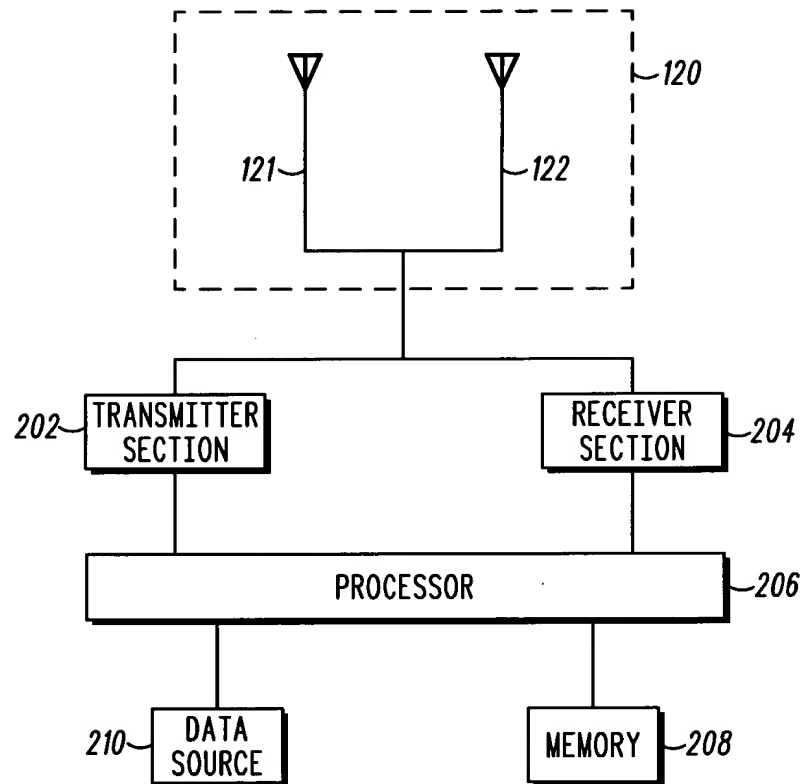
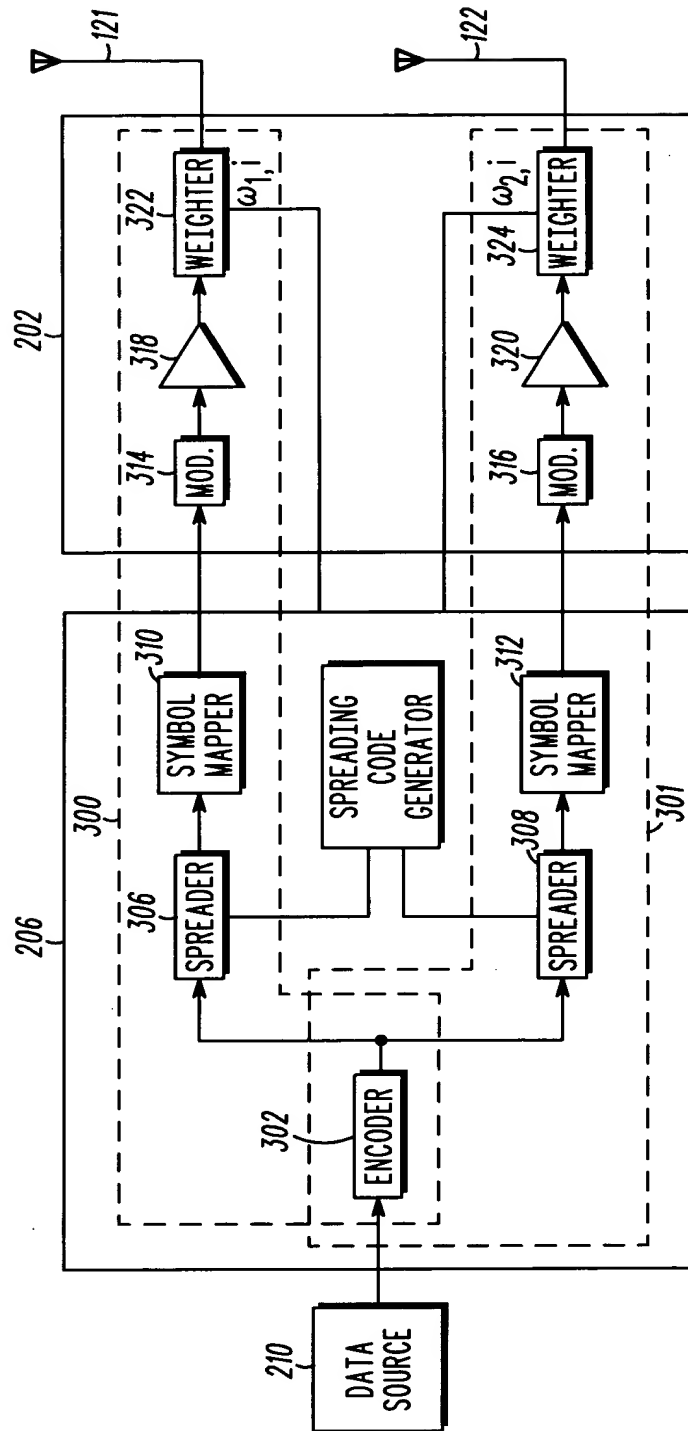


FIG. 2



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400

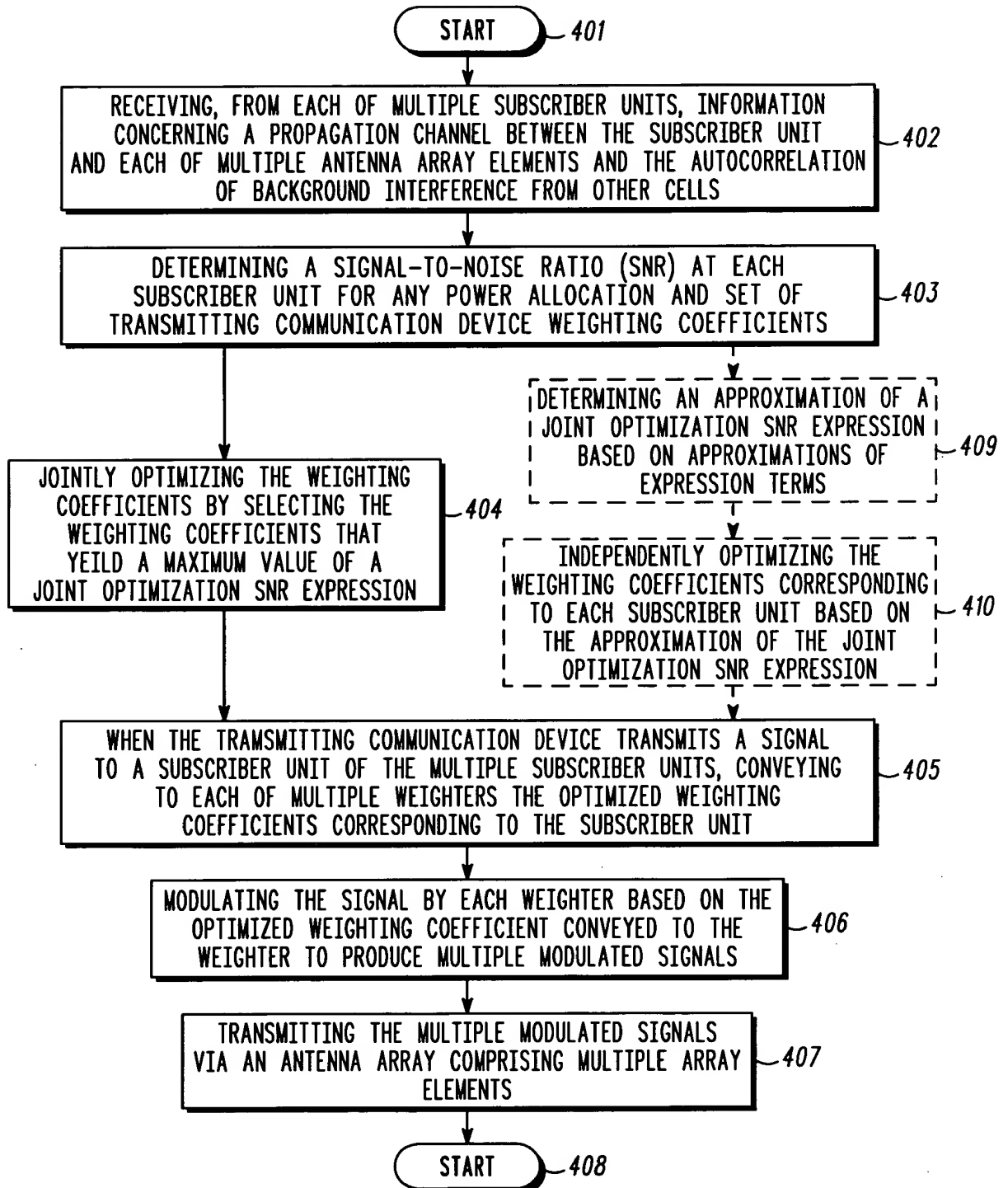


FIG. 4

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	$(E_s/N_t)_{TxAA} - (E_s/N_t)_{STD} \text{ (dB)}$			
E_c/I_{or}	$I_{or}/I_{oc}=0 \text{ dB}$	$I_{or}/I_{oc}=5 \text{ dB}$	$I_{or}/I_{oc}=10 \text{ dB}$	$I_{or}/I_{oc}=\infty \text{ dB}$
0.05	2.00	1.66	1.28	0.92
0.1	1.94	1.52	1.07	0.61
0.2	1.82	1.25	0.62	-0.03
0.5	1.44	0.37	-0.93	-2.45
0.9	0.91	-1.01	-3.85	-9.88

A COMPARISON OF THE PERFORMANCE OF TxAA ANTENNA ARRAY WEIGHTING AND STD AS A FUNCTION OF I_{or}/I_{oc} AND E_c/I_{or} .

FIG. 5

	$(E_s/N_t)_{OPTIMAL} - (E_s/N_t)_{TxAA} \text{ (dB)}$			
E_c/I_{or}	$I_{or}/I_{oc}=0 \text{ dB}$	$I_{or}/I_{oc}=5 \text{ dB}$	$I_{or}/I_{oc}=10 \text{ dB}$	$I_{or}/I_{oc}=\infty \text{ dB}$
0.05	0.02	0.09	0.21	0.36
0.1	0.03	0.13	0.29	0.51
0.2	0.05	0.22	0.51	0.90
0.5	0.14	0.65	1.55	2.84
0.9	0.36	1.62	4.03	9.89

A COMPARISON OF THE PERFORMANCE OF OPTIMIZED TRANSMITTER ANTENNA ARRAY WEIGHTING OF THE PRESENT INVENTION (OPTIMAL) WITH THE TxAA TRANSMITTER ANTENNA ARRAY WEIGHTING OF THE PRIOR ART AS A FUNCTION OF I_{or}/I_{oc} AND E_c/I_{or} .

FIG. 6